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Current Trends

## Revision of the Case Definition of Acquired Immunodeficiency Syndrome for National Reporting-United States

Patients with illnesses that, in retrospect, were manifestations of acquired immunodeficiency syndrome (AIDS) were first described in the summer of 1981 (1,2). A case definition of AIDS for national reporting was first published in the MMWR in September 1982 (3,4). Since then, the definition has undergone minor revisions in the list of diseases used as indicators of underlying cellular immunodeficiency (5-8).

Since the 1982 definition was published, human T-cell lymphotropic virus type III/ lymphadenopathy-associated virus (HTLV-III/LAV) has been recognized as the cause of AIDS. The clinical manifestations of HTLV-III/LAV infection may be directly attributable to infection with this virus or the result of secondary conditions occurring as a consequence of immune dysfunction caused by the underlying infection with HTLV-III/LAV. The range of manifestations may include none, nonspecific signs and symptoms of illness, autoimmune and neurologic disorders, a variety of opportunistic infections, and several types of malignancy. AIDS was defined for national reporting before its etiology was known and has encompassed only certain secondary conditions that reliably reflected the presence of a severe immune dysfunction. Current laboratory tests to detect HTLV-III/LAV antibody make it possible to include additional serious conditions in the syndrome, as well as to further improve the specificity of the definition used for reporting cases.

The current case definition of AIDS has provided useful data on disease trends, because it is precise, consistently interpreted, and highly specific. Other manifestations of HTLV-III/LAV infections than those currently proposed to be reported are less specific and less likely to be consistently reported nationally. Milder disease associated with HTLV-III/LAV infections and asymptomatic infections may be reportable in some states and cities but will not be nationally reportable. Because persons with less specific or milder manifestations of HTLV-III/LAV infection may be important in transmitting the virus, estimates of the number of such persons are of value. These estimates can be obtained through epidemiologic studies or special surveys in specific populations.

Issues related to the case definition of AIDS were discussed by the Conference of State and Territorial Epidemiologists (CSTE) at its annual meeting in Madison, Wisconsin, June 2-5, 1985. The CSTE approved the following resolutions:

1. that the case definition of AIDS used for national reporting continue to include only the more severe manifestations of HTLV-III/LAV infection; and
2. that CDC develop more inclusive definitions and classifications of HTLV-III/LAV infection for diagnosis, treatment, and prevention, as well as for epidemiologic studies and special surveys; and
3. that the following refinements be adopted in the case definition of AIDS used for national reporting:
a. In the absence of the opportunistic diseases required by the current case definition, any of the following diseases will be considered indicative of AIDS if the patient has a positive serologic or virologic test for HTLV-III/LAV:
(1) disseminated histoplasmosis (not confined to lungs or lymph nodes), diagnosed by culture, histology, or antigen detection;
(2) isosporiasis, causing chronic diarrhea (over 1 month), diagnosed by histology or stool microscopy;
(3) bronchial or pulmonary candidiasis, diagnosed by microscopy or by presence of characteristic white plaques grossly on the bronchial mucosa (not by culture alone);
(4) non-Hodgkin's lymphoma of high-grade pathologic type (diffuse, undifferentiated) and of B-cell or unknown immunologic phenotype, diagnosed by biopsy;
(5) histologically confirmed Kaposi's sarcoma in patients who are 60 years old or older when diagnosed.
b. In the absence of the opportunistic diseases required by the current case definition, a histologically confirmed diagnosis of chronic lymphoid interstitial pneumonitis in a child (under 13 years of age) will be considered indicative of AIDS unless test(s) for HTLV-III/LAV are negative.
c. Patients who have a lymphoreticular malignancy diagnosed more than 3 months after the diagnosis of an opportunistic disease used as a marker for AIDS will no longer be excluded as AIDS cases.
d. To increase the specificity of the case definition, patients will be excluded as AIDS cases if they have a negative result on testing for serum antibody to HTLV-III/LAV, have no other type of HTLV-III/LAV test with a positive result, and do not have a low number of T-helper lymphocytes or a low ratio of T-helper to T-suppressor lymphocytes. In the absence of test results, patients satisfying all other criteria in the definition will continue to be included.
CDC will immediately adopt the above amendments to the case definition of AIDS for national reporting. This revision in the case definition will result in the reclassification of less than $1 \%$ of cases previously reported to CDC. The number of additional new cases reportable as a result of the revision is expected to be small. Cases included under the revised definition will be distinguishable from cases included under the old definition so as to provide a consistent basis for interpretation of trends. CDC will also develop draft classifications for disease manifestations of HTLV-III/LAV infections other than AIDS, distribute these widely for comment, and publish the results.
Reported by Conference of State and Territorial Epidemiologists; AIDS Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.

## References

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## Results of Human T-Lymphotropic Virus Type III Test Kits Reported from Blood Collection Centers United States, April 22,-May 19, 1985

In March 1983, the U.S. Public Health Service (PHS) recommended that members of groups at increased risk for acquired immunodeficiency syndrome (AIDS) refrain from donating plasma and/or blood (1). The recommendation was made to decrease the risk of AIDS associated with the administration of blood or blood products, which accounts for about $2 \%$ of all reported AIDS cases in the United States (2).

Since that recommendation, evidence has shown that a newly recognized retrovirus, human T-lymphotropic virus type III (HTLV-III), is the cause of AIDS (3-5). An ELISA test designed to detect antibody to HTLV-III was developed. A previous report described serologic surveys with use of this test (6). In January 1985, the PHS issued provisional recommendations for screening donated blood and plasma for antibody to HTLV-III (6). In early March, ELISA test kits developed for detecting antibody to HTLV-III in donated blood and plasma were licensed and made commercially available.

The American Red Cross, the Council of Community Blood Centers, and the American Association of Blood Banks have provided data on test kit results for the 4-week period April 22, to May 19, 1985. During this period, 131 blood centers and banks reported results from screening 593,831 units of blood. An initially reactive test was found for 5,313 units ( $0.89 \%$ ); 1,484 units ( $0.25 \%$ ) were repeatedly reactive.* Repeatedly reactive rates varied by region of the country, ranging from $0.08 \%$ to $0.32 \%$ (Table 1).
-A sample that is reactive on two independent ELISA assays (done in duplicate at the same time or singly at different times) is defined as repeatedly reactive. If tested three times, and found reactive twice, it is also defined as repeatedly reactive.

TABLE 1. Number of blood units screened for HTLV-III and percentage repeatedly reactive, by geographic region - United States, April 22,-May 19, 1985

|  | North- <br> west | North- <br> east | South- <br> west | South- <br> east | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Total units tested | 27,174 | 269,032 | 116,812 | 180,813 | 593,831 |
| Repeatedly reactive (\%) | 0.08 | 0.32 | 0.24 | 0.18 | 0.25 |

Reported by the American Red Cross; Council of Community Blood Centers; American Association of Blood Banks; Office of Epidemiology and Biostatistics, Center for Drugs and Biologics, U.S. Food and Drug Administration.
Editorial Note: The data shown represent about 70\% of all blood collected in the United States during the 1 -month period. They demonstrate rapid implementation of HTLV-III antibody screening nationally. Since these data represent initial results of testing by many centers, future results may vary. It is not possible from these data to determine how many of the repeatedly reactive samples represent true HTLV-III infection or are false positives. Additional data correlating screening results and other test methods, such as Western blot, will be presented at a conference sponsored by CDC, the U.S. Food and Drug Administration, and the $\mathrm{Na}-$ tional Institutes of Health (NIH) to be held at NIH on July 31, 1985. Organizations wishing to send representatives to this conference or persons wishing to attend should contact one of the three agencies for additional information.

## References

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## Update: Lyme Disease

 and Cases Occurring during Pregnancy - United StatesLyme disease is a tickborne illness caused by a spirochete, Borrelia burgdorferi. The number of cases reported to CDC has increased over the past 2 years so that Lyme disease is now the most commonly reported tickborne illness in the United States. Although it is reportable in only a few states, informal national surveillance was initiated by CDC in 1980 and has been compiled annually since 1982. In 1980, 1982, and 1983, 226, 491, and 599 cases, respectively, were reported in the United States. In 1984, a provisional total of 1,498 cases was reported (Table 2). For Lyme disease patients for whom 1983 and 1984 surveillance data are available, ages ranged from 1 year to 81 years (median 34 years). Fifty-four percent of cases occurred among males. Eighty percent of cases occurred during the 4-month period May-August, with the peak incidence in July.

Since 1980, reported cases of Lyme disease have occurred in an increasing number of states. Lyme disease was acquired in 11 states in 1980 and 1982, 18 states in 1983, and 21 states in 1984. Increasing numbers of cases have occurred in three states outside previously recognized endemic areas: Arkansas, North Carolina, and Texas. Isolated, serologically confirmed cases have been acquired in Florida, Georgia, Indiana, Michigan, New Hampshire, Virginia, and Tennessee. However, in all reporting years, over $90 \%$ of all cases were acquired in
only seven states: Connecticut, Massachusetts, Minnesota, New Jersey, New York, Rhode Island, and Wisconsin. In addition to the states listed in Table 1, isolated, clinically suspected but unconfirmed cases of Lyme disease have been reported from Kentucky, Maine, Missouri, Montana, Ohio, and Vermont.

The possible association between Lyme disease during pregnancy and adverse outcome has recently received attention. Transplacental transmission of B. burgdorferi has been documented in a pregnant woman with Lyme disease who did not receive antimicrobial therapy. She delivered an infant with a congenital heart defect (1). The relationship between the intrauterine infection and congenital heart defect has not been established. In an effort to assess the risk of Lyme disease during pregnancy, the state and territorial epidemiologists and CDC have established a registry to enroll cases of Lyme disease in pregnant women before the outcome of pregnancy is known. Of the 19 pregnancies evaluated to date, none resulted in a child with a congenital heart defect. However, other adverse outcomes were found,

TABLE 2. Lyme disease,* by state where acquired - United States, 1980, 1982-1984

| Region | Year |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1980 | 1982 | 1983 | $1984{ }^{\dagger}$ |
| New England |  |  |  |  |
| N.H. |  |  | 1 |  |
| Mass. | 11 | 15 | 13 | 33 |
| R.I. | 3 | 29 | 20 | 21 |
| Conn. | 52 | 135 | 78 | 483 |
| Mid-Atlantic |  |  |  |  |
| N.Y. | 7 | 170 | 267 | 446 |
| N.J. | 10 | 57 | 70 | 155 |
| P.A. | 1 | 2 |  | 5 |
| South Atlantic |  |  |  |  |
| Del. |  | 1 | 4 | 1 |
| Va . |  |  |  | 1 |
| Md. | 1 | 1 | 5 | 12 |
| N.C. |  |  | 1 | 16 |
| Ga . | 1 |  |  | 1 |
| Fla. |  |  |  | 1 |
| North Central |  |  |  |  |
| Wis. | 25 | 58 | 69 | 174 |
| Minn. | 8 | 22 | 55 | 87 |
| Mich. |  |  | 1 |  |
| Ind. |  |  |  | 1 |
| South Central |  |  |  |  |
| Ark. |  |  | 1 | 4 |
| Tenn. |  |  | , | 1 |
| Tex. |  |  | 1 | 18 |
| Mountain/Pacific |  |  |  |  |
| Utah |  | 1 | 1 |  |
| Nev . | 1 |  |  |  |
| Oreg. |  |  | 1 | 10 |
| Calif. |  |  | 11 | 24 |
| Unknown | 106 |  |  | 4 |
| Total | 226 | 491 | 599 | 1,498 |

[^0]Lyme Disease - Continued
including intrauterine fetal demise in the second trimester, prematurity, and developmental delay with cortical blindness. None of the adverse outcomes have been documented to be caused by Lyme disease. Outcomes of 14 of the pregnancies were completely normal. The risk of adverse outcome for pregnancies complicated by Lyme disease is not currently known. Reported by State and Territorial Epidemiologists; Respiratory and Special Pathogens Epidemiology Br, Div of Bacterial Diseases, Center for Infectious Diseases, CDC.
Editorial Note: Lyme disease, first described in 1977 (2), is characterized by a distinctive skin lesion, erythema chronicum migrans (ECM), which starts as a red macule at the site of a tick bite and expands to become an annular erythema with central clearing. Some patients develop systemic manifestations, including neurologic, cardiac, and arthritic abnormalities weeks to months after the skin lesion. B. burgdorferi has been isolated from cerebrospinal fluid (3) and visualized in synovia of patients with Lyme disease (4), suggesting the spirochetes can persist in various sites in the body and may be responsible for the systemic manifestations.
(Continued on page 383)

TABLE I. Summary-cases of specified notifiable diseases, United States

| Disease | 25th Week Ending |  |  | Cumulative, 25 th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { June } 22, \\ 1985 \\ \hline \end{gathered}$ | $\begin{gathered} \text { June } 23, \\ 1984 \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1980-1984 \end{gathered}$ | $\begin{gathered} \text { June } 22, \\ 1985 \end{gathered}$ | $\begin{gathered} \text { June } 23 . \\ 1984 \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1980-1984 \\ \hline \end{gathered}$ |
| Acquired Immunodeficiency Syndrome (AIDS) | 252 | 79 | N | 3.541 | 1,845 | N |
| Aseptic meningitis | 148 | 122 | 143 | 1.942 | 2,041 | 2.041 |
| Encephalitis: Primary larthropod-borne \& unspec.) | 19 | 22 | 22 | 424 | 390 | 393 |
| Post-infectious | 2 | 10 | 4 | 67 | 63 | 53 |
| Gonorrhea: Civilian | 16,210 | 16.470 | 19.268 | 384,108 | 381.734 | 449,368 |
| Hepatitis: Military | 342 | 313 | 371 | 8,823 | 9.767 | 12,757 |
| Hepatitis: Type A | 398 | 376 | 376 | 10,120 | 9.938 | 10.600 |
| Type B | 514 | 473 | 468 | 12,024 | 11.938 | 10.075 |
| Non A, Non B | 75 | 71 | N | 1,941 | 1.823 | N |
| Unspecified | 141 | 100 | 170 | 2,661 | 2,313 | 4.066 |
| Legionellosis | 14 | 9 | N | 272 | 260 | N |
| Leprosy | 8 | 3 | 2 | 159 | 112 | 104 |
| Malaria | 18 | 16 | 16 | 358 | 366 | 441 |
| Measles: Total ${ }^{*}$ | 102 | 67 | 75 | 1.711 | 1,688 | 1.688 |
| Indigenous | 93 | 60 | N | 1.378 | 1.499 | N |
| Imported | 9 | 7 | N | 333 | 189 | N |
| Meningococcal infections: Total | 42 | 53 | 50 | 1.372 | 1.623 | 1.639 |
| Civilian | 42 | 53 | 49 | 1.369 | 1.620 | 1,624 |
| Mumps Military | - | $7{ }^{-}$ | 72 | 13 | ${ }^{3}$ | 8 |
| Mumps | 44 | 72 | 72 | 1.853 | 1.855 | 2,731 |
| Pertussis | 19 | 35 | 27 | 690 | 964 | +529 |
| Rubella (German measles) | 54 | 13 | 33 | 322 | 407 | 1.445 |
| Syphilis (Primary \& Secondary): Civilian | 498 | 518 | 611 | 11.854 | 13,282 | 14,384 |
| Military | - | 8 | 8 | 82 | 167 | 181 |
| Toxic Shock syndrome | 10 | 12 | N | 181 | 236 | N |
| Tuberculosis | 585 | 451 | 499 | 9.818 | 9.987 | 12,069 |
| Tularemia | 1 | 8 | 10 | 52 | 96 | 90 |
| Typhoid fever | 4 | 8 | 8 | 129 | 152 | 182 |
| Typhus fever, tick-borne (RMSF) | 28 | 48 | 48 | 190 | 271 | 325 |
| Rabies, animal | 66 | 88 | 158 | 2,367 | 2,455 | 3.210 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1985 |  | Cum. 1985 |
| :---: | :---: | :---: | :---: |
| Anthrax | 5 | Leptospirosis (N.Y. City 1, Hawaii 1) | 13 |
| Botulism: Foodborne (Wash. 1) | 5 | Plague | 4 |
| Infant | 22 | Poliomyelitis: Total | 2 |
| Other | - | Paralytic | 2 |
| Brucellosis (Minn. 1, Tex. 1) | 52 | Psittacosis (Fla. 1) | 57 |
| Cholera | - | Rabies, human | - |
| Congenital rubella syndrome | 74 | Tetanus | 28 |
| Congenital syphilis, ages < 1 year | 74 | Trichinosis (N.J. 3) | 37 |
| Diphtheria | 1 | Typhus fever, flea-borne (endemic, murine) | 5 |

[^1]TABLE III. Cases of specified notifiable diseases, United States, weeks ending
June 22, 1985 and June 23, 1984 (25th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | $\begin{gathered} \text { Unspeci- } \\ \text { fied } \end{gathered}$ |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1985 | 1985 | 1985 | 1985 | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ |
| UNITED STATES | 3,541 | 148 | 424 | 67 | 384.108 | 381.734 | 398 | 514 | 75 | 141 | 14 | 159 |
| NEW ENGLAND | 121 | 4 | 12 | - | 11.379 | 10.843 | 9 | 42 | 1 | 8 | - | 3 |
| Maine | 5 | - | - | - | 474 | 434 | - | 4 | - | - | - | - |
| N.H. | - | - | 4 | - | 235 | 316 | - | - | - | - | - | - |
| Vt . | - | - | - | - | 139 | 182 | - | $\stackrel{-}{-}$ | - | - | - | - |
| Mass. | 72 | 1 | 8 | - | 4,335 | 4.322 | 2 | 31 | - | 8 | - | 3 |
| R.I. | 4 | 1 | - | - | 856 | 703 | 1 | 4 | 1 | - | - | - |
| Conn. | 40 | 2 | - | - | 5.340 | 4,886 | 6 | 3 | - | - | - | - |
| MID ATLANTIC | 1,391 | 17 | 63 | 5 | 57,392 | 52,206 | 25 | 72 | 10 | 6 | - | 14 |
| Upstate N.Y. | 170 | 5 | 21 | 4 | 7,570 | 7,688 | 8 | 21 | 4 | 3 | - | - |
| N.Y. City | 915 | 2 | 4 | - | 28,362 | 22,261 | 2 | 3 | - | - | - | 14 |
| N.J. | 217 | 6 | 16 | - | 9,516 | 8.614 | 4 | 20 | 2 | 1 | - | - |
| Pa . | 89 | 4 | 22 | 1 | 11.944 | 13,643 | 11 | 28 | 4 | 2 | - | - |
| E.N. CENTRAL | 141 | 7 | 92 | 14 | 53,452 | 52,024 | 21 | 48 | 3 | 4 | 6 | 4 |
| Ohio | 24 | 5 | 38 | 4 | 13,916 | 13,599 | 7 | 11 | - | 1 | 2 | 2 |
| Ind. | 6 | - | 13 | 1 | 5.186 | 5.729 | 4 | 13 | - | - | - | - |
| III. | 73 | - | 12 | 6 | 14,305 | 11,857 | 2 | 2 | 1 | 1 | - | - |
| Mich. | 25 | 2 | 23 | - | 15,136 | 14.875 | 8 | 22 | 2 | 2 | 4 | 2 |
| Wis. | 13 | - | 6 | 3 | 4.909 | 5.964 | - | - | - | - | - | - |
| W.N. CENTRAL | 38 | 2 | 30 | 3 | 19.028 | 18,141 | 7 | 21 | 2 | 1 | 3 | - |
| Minn. | 7 | 1 | 14 | 1 | 2.873 | 2,601 | 3 | 5 | 2 | - | - | - |
| lowa | 5 | - | 10 | . | 2,044 | 2,055 | 1 | 3 | - | 1 | - | - |
| Mo. | 20 | 1 | - | - | 8,948 | 8,695 | 2 | 5 | - | - | 3 | - |
| N. Dak. | - | - | - | 1 | 129 | 180 | - | - | - | - | - | - |
| S. Dak. | - | U | - | - | 337 | 477 | U | U | $\mathbf{U}$ | U | U | - |
| Nebr. | 2 | - | 1 | - | 1.642 | 1,222 | 1 | 7 | - | - | - | - |
| Kans. | 4 | - | 5 | 1 | 3.055 | 2.911 | - | 1 | - | - | - | - |
| S. ATLANTIC | 550 | 28 | 52 | 21 | 83,225 | 96,958 | 27 | 93 | 21 | 15 | 2 | 4 |
| Del. | 7 | - | 1 | - | 1.865 | 1.724 | 3 | - | - | - | . | - |
| Md. | 63 | 7 | 14 | 1 | 13,306 | 10.912 | 1 | 15 | 5 | 4 | - | 1 |
| D. C . | 67 | - | - | - | 6.915 | 7.060 | 1 | 7 | - | - | - | - |
| Va . | 30 | 4 | 14 | 4 | 8.697 | 9.089 | 4 | 12 | 2 | 1 | - | - |
| W. Va. | 3 |  | 4 | - | 1.170 | 1.175 | - | 1 | - | 1 | - | - |
| N.C. | 28 | 3 | 16 | - | 16.027 | 15,508 | 4 | 22 | 2 | 3 | 1 | 2 |
| S.C. | 6 | - | 3 | - | 10.402 | 9.172 | 3 | 10 | 2 | - | 1 | - |
| Ga . | 84 | 3 |  | - | - | 18,791 | - | 12 | 1 | $\overline{-}$ | - | - |
| Fla. | 262 | 11 | - | 16 | 24.843 | 23.527 | 11 | 14 | 9 | 6 | - | 1 |
| E.S. CENTRAL | 31 | 14 | 18 | 4 | 33.147 | 32,142 | 4 | 27 | 1 | 1 | - | - |
| $K y$ | 11 | 1 | 5 | - | 3,696 | 4.050 | 2 | 4 | - | 1 | - | - |
| Tenn. | 4 | 1 | 4 | - | 13.118 | 13.444 | 2 | 15 | 1 | - | - | - |
| Ala. | 14 | 12 | 7 | 4 | 10.800 | 10,609 | - | 4 | - | - | - | - |
| Miss. | 2 | 12 | 2 | - | 5.533 | 4.039 | - | 4 | - | - | - | - |
| W.S. CENTRAL | 281 | 38 | 46 | 1 | 53,117 | 52,404 | 56 | 37 | 5 | 46 | 1 | 12 |
| Ark. | 2 |  | 1 | 1 | 5.053 | 4,709 | - | - | - | 1 | ; | 1 |
| La. | 53 | 2 | 2 | - | 11.528 | 11.976 | 2 | 6 | 1 | 2 | 1 | 1 |
| Okla. | 5 | - | 11 | - | 5.414 | 5.647 | 1 | 2 | - | 1 | - | 10 |
| Tex. | 221 | 36 | 32 | - | 31.122 | 30,072 | 53 | 29 | 4 | 42 | - | 10 |
| MOUNTAIN | 55 | 4 | 18 | 3 | 12.452 | 12.247 | 68 | 24 | 10 | 13 | - | 5 |
| Mont. | 5 | - | - | . | 351 | 536 | 2 | - | - | - | - | - |
| Idaho | - | 1 | - | - | 398 | 592 | 1 | - | - | - | - | - |
| Wyo. | - | - | 1 | - | 303 | 365 | - | 5 | - | - | - | - |
| Colo. | 25 | 3 | 5 | - | 3.780 | 3.527 | 10 | 5 | - | 6 | - | 1 |
| N. Mex. | 5 | - | $\cdot 1$ | - | 1.405 | 1,362 | 13 | 7 | 2 | 5 | - | i |
| Ariz. | 18 | - | 2 | - | 3,707 | 3,332 | 29 | 8 | 7 | 5 | - | 1 |
| Utah | 4 | - | 7 | 3 | 515 | . 606 | 9 | 3 | 1 | 2 | - | 2 |
| Nev. | 3 | - | 2 | - | 1.993 | 1,927 | 4 | 1 | 1 | 2 | - | 1 |
| PACIFIC | 933 | 34 | 93 | 16 | 60.916 | 54.769 | 181 | 150 | 22 | 47 | 2 | 117 |
| Wash. | 45 | 2 | 9 | - | 4,134 | 3,844 | 2 | 4 | 2 | - | - | 26 |
| Oreg. | 13 | - | - | O | 2.997 | 3,030 | 11 | 5 | 19 | 47 | 2 | 2 |
| Calif. | 856 | 29 | 82 | 16 | 51.473 | 45.648 | 167 | 134 | 19 | 47 | 2 | 80 |
| Alaska | 2 | - | 2 | - | 1.437 | 1,334 | - | 2 | - | - | - | - |
| Hawaii | 17 | 3 | - | - | 875 | 913 | 1 | 5 | - | - | - | 9 |
| Guam | - | U | - | - | 67 | 117 | U | U | U | U | U | 1 |
| P.R. | 36 | 7 | 4 | 1 | 1.695 | 1.647 | 5 | 26 | 1 | 7 | - | 2 |
| V.I. | 2 |  | - | , | 235 | 231 | - | - | - | - | - | - |
| Pac. Trust Terr. | - | U | - | - | 146 |  | U | U | U | U | U | 20 |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending June 22, 1985 and June 23, 1984 (25th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | Total |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | 1985 | Cum. 1985 | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |
| UNITED STATES | 358 | 93 | 1,378 | 9 | 333 | 1,688 | 1,372 | 44 | 1.853 | 19 | 690 | 964 | 54 | 322 | 407 |
| NEW ENGLAND | 20 | 2 | 32 | - | 87 | 91 | 64 | 1 | 37 | - | 35 | 21 | - | 9 | 17 |
| Maine | 3 | - | - | - | - | - | 2 | - | 6 | - | 2 |  | - |  | 1 |
| N.H. | 2 | - | - | - | - | 36 | 5 | - | 6 | - | 18 | 4 | - | 2 | . |
| Vt . | - | - | - | - | - | 4 | 12 | - | 2 | - | 2 | 11 | - | 2 |  |
| Mass. | 10 | 2 | 28 | - | 84 | 38 | 11 | - | 13 | - | 5 | 5 | - | 6 | 16 |
| R.I. | 2 | - | - | - | - | - | 10 | 1 | 6 | - | 4 | 1 | - |  |  |
| Conn. | 3 | - | 4 | - | 3 | 13 | 24 | , | 4 | - | 4 | . | - | 1 |  |
| MID ATLANTIC | 54 | 13 | 134 | $4+$ | 26 | 98 | 228 | 4 | 205 | 1 | 60 | 70 | 43 | 117 | 136 |
| Upstate N.Y. | 19 | 9 | 66 | $1{ }^{\dagger}$ | 10 | 23 | 96 | 4 | 116 | 1 | 27 | 47 | 1 | 12 | 93 |
| N.Y. City | 15 | 1 | 35 | $2 \dagger$ | 7 | 65 | 25 | - | 14 | - | 9 | 3 | 42 | 84 | 31 |
| N.J. | 6 | 3 | 10 | 1 § | 9 | 6 | 37 | - | 25 | - | 2 | 5 |  | 9 | 11 |
| Pa. | 14 | - | 23 | , | - | 4 | 70 | - | 50 | - | 22 | 15 | . | 12 | 1 |
| E.N. CENTRAL | 17 | - | 278 | 1 | 125 | 608 | 246 | 8 | 713 | 6 | 81 | 266 | - | 20 | 64 |
| Ohio | 3 | - | - | 1 § | 43 | 7 | 78 | 2 | 206 | 4 | 19 | 47 | - | - | 2 |
| Ind. | 1 | - | ${ }^{-}$ | , | 1 | 3 | 36 | - | 30 | - | 11 | 176 | - | - | 2 |
| 1 II . | 1 | - | 191 | - | 66 | 162 | 54 | 3 | 142 | 1 | 13 | 18 | - | 5 | 35 |
| Mich. | 11 | - | 36 | - | 15 | 413 | 54 | 2 | 271 | 1 | 15 | 12 | . | 14 | 18 |
| Wis. | 1 | - | 51 | - | - | 23 | 24 | 1 | 64 | - | 23 | 13 | - | 1 | 7 |
| W.N. CENTRAL | 13 | - | 1 | - | 6 | 7 | 76 | 1 | 62 | 1 | 61 | 78 | 2 | 18 | 28 |
| Minn. | 6 | - | . | - | 4 | 2 | 17 | . | 1 | 1 | 14 | 8 | 2 | 2 | 2 |
| lowa | 1 | - | - | - | - | - | 7 | - | 8 | - | 3 | 3 | - | . | . |
| Mo. | 2 | - | - | - | 2 | 2 | 32 | 1 | 11 | - | 12 | 14 | 2 | 7 |  |
| N. Dak. | 1 | - | - | - | . | 2 | 3 | 1 | 2 | - | 6 | 1 | 2 | 2 | 3 |
| S. Dak. | 1 | U | - | U | - | - | 1 | U | 2 | U | 1 | 3 | U | 2 | . |
| Nebr. | 1 | - | - | - | - | - | 6 |  | 2 | - | 3 | 2 | - | - | - |
| Kans. | 1 | - | 1 | - | - | 3 | 10 | - | 38 | - | 22 | 48 | - | 7 | 23 |
| S. ATLANTIC | 51 | 15 | 181 | - | 6 | 27 | 264 | 7 | 154 | 6 | 126 | 80 | - | 34 | 20 |
| Del. | - | - | - | - | - | - | 6 | . | 1 | - | , | 1 | . | 1 | 2 |
| Md. | 13 | 6 | 31 | - | 4 | 9 | 33 | - | 19 | 1 | 31 | 12 | . | 1 | 1 |
| D.C. | 4 | - | - | - | 1 | 5 | 6 | - | - | - | 3 | 12 | . | - | 1 |
| Va . | 10 | - | 18 | - | 1 | 2 | 33 | 3 | 28 | 1 | 5 | 10 | - | 1 | - |
| W. Va. | 1 | - | 31 | - | - | - | 5 | 2 | 51 | 1 | 1 | 7 | - | 9 |  |
| N.C. | 5 | 6 | 9 | - | - | - | 36 | 2 | 9 | 1 | 9 | 17 | . | 9 |  |
| S.C. | - | - | - | - | - | - | 28 | - | 7 | - | - | 2 | . | 3 |  |
| Ga. | 3 | - | 8 | - | - | - | 48 | - | 13 | 2 | 48 | 7 | - | 4 | 2 |
| Fla. | 15 | 3 | 84 | - | - | 11 | 69 | 2 | 26 | - | 32 | 24 | - | 15 | 17 |
| E.S. CENTRAL | 6 | - | - | - | 1 | 3 | 60 | 4 | 17 | 3 | 9 | 5 | 1 | 2 | 7 |
| Ky. | 2 | - | - | - | - | 1 | 5 | 3 | 4 | 2 | 3 | 1 | 1 | 2 | 3 |
| Tenn. | - | - | - | - | - | 2 | 20 | 1 | 11 | 1 | 2 | 2 | . | . |  |
| Ala. | 3 | - | - | - | - | - | 20 | - | - | - | 2 | - | . | - | 1 |
| Miss. | 1 | - | - | - | 1 | - | 15 | - | 2 | - | 2 | 2 | - | - | 3 |
| W.S. CENTRAL | 28 | 26 | 215 | - | 7 | 335 | 119 | 4 | 198 | - | 116 | 222 | 1 | 22 | 6 |
| Ark. | - | - | - | - | - | 1 | 11 | - | 4 | - | 10 | 10 | . | 1 | 3 |
| La. | - | 9 | 27 | - | - | - | 19 | - | 2 | - | 5 | 3 | - | . | - |
| Okla. | 1 | 7 | - | - | 7 | 5 | 24 | N | N | - | 64 | 200 | - | 1 | - |
| Tex. | 27 | 17 | 188 | - | 7 | 329 | 65 | 4 | 192 | - | 37 | 9 | 1 | 20 | 3 |
| MOUNTAIN | 20 | 18 | 412 | - | 43 | 138 | 63 | 6 | 188 | - | 35 | 68 | - | 4 | 12 |
| Mont. | - | - | 122 | - | 17 | - | 4 | - | 7 | - | 3 | 17 | - | - | 12 |
| Idaho | 1 | 6 | 95 | - | 18 | 23 | 2 | 1 | 6 | - | - | 2 | - | 1 | 1 |
| Wyo. | - | - | - | - | - | - | 5 | - | 2 | - | - | 3 | - | - | 2 |
| Colo. | 5 | - | - | - | 6 | - | 17 | 1 | 16 | - | 10 | 25 | - | - | 2 |
| N. Mex. | 8 | - | 1 | - | 2 | 88 | 8 | N | N | - | 4 | 5 | - | 2 | 2 |
| Ariz. | 3 | 12 | 194 | - | - | - | 18 | 2 | 90 | - | 10 | 9 | - | 1 | - |
| Utah | 2 | - | - | - | - | 27 | 7 |  | 5 | - | 8 | 5 | - | - | 7 |
| Nev . | 1 | - | - | - | - | - | 2 | 2 | 62 | - | - | 2 | - | - | - |
| PACIFIC | 149 | 19 | 125 | 4 | 32 | 381 | 252 | 9 | 279 | 2 | 167 | 154 | 7 | 96 | 117 |
| Wash. | 11 | - | 1 | - | - | 90 | 42 | 2 | 23 | - | 24 | 27 | - | 2 | 1 |
| Oreg. | 8 | - | 3 | - | - | - | 25 | N | N | - | 19 | 9 | - | 2 | - |
| Calif. | 113 | 18 | 110 | 3 † | 27 | 256 | 176 | 7 | 244 | 2 | 112 | 52 | 3 | 58 | 113 |
| Alaska | 2 | - | - | - | - | - | 6 | - | 3 | - | 9 | - | - | 1 | 1 |
| Hawaii | 15 | 1 | 11 | $1 \dagger$ | 5 | 35 | 3 | - | 9 | - | 3 | 66 | 4 | 33 | 2 |
| Guam |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Guam | 1 | U | 10 | U | - | 90 | - | U | 4 | U | - | - | U | 1 | 4 |
| P.R. | - | - | 46 |  | - | 1 | 9 | 7 | 107 | 1 | 5 | - | 1 | 20 | 5 |
| V.I. | - | , | 4 | - | 6 | - | - | - | 3 | - | - | - | - | - | - |
| Pac. Trust Terr. | - | U | - | U | - | - | - | U | 3 | U | - | - | U | - | - |

- For measles only, imported cases includes both out-of-state and international importations. $N$ Not notifiable $U$ : Unavailable $\boldsymbol{t}^{\text {International }} \boldsymbol{\delta}^{\text {Out-of-state }}$

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending June 22, 1985 and June 23, 1984 (25th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondạry) |  | Toxicshock Syndrome | Tuberculosis |  | TularemiaCum.$1985$ | Typhoid <br> Fever <br> Cum. <br> 1985 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1985 | Rabies <br> Animal <br> Cum. <br> 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1985 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ | 1985 | $\begin{aligned} & \text { Cum. } \\ & 1985 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1984 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 11.854 | 13.282 | 10 | 9.818 | 9.987 | 52 | 129 | $190+30$ | 2.367 |
| NEW ENGLAND | 261 | 268 | 1 | 322 | 277 | - | 6 | $2+1$ | 8 |
| Maine | 7 | 2 | - | 22 | 13 | - | - |  |  |
| N.H. | 6 | 4 | - | 8 | 18 | - | - | - |  |
| Vt . | 3 | 1 | 1 | 4 | 3 | - |  |  |  |
| Mass. | 138 | 159 | - | 197 | 148 | - | 5 | 21 | 5 |
| R.I. | 7 | 8 | - | 27 | 25 | - | - | - | - |
| Conn. | 100 | 94 | - | 64 | 70 | - | 1 | - | 3 |
| MID ATLANTIC | 1.656 | 1,841 | - | 1.786 | 1.809 | 1 | 18 | $1+1$ | 188 |
| Upstate N.Y. | 115 | 150 | - | 296 | 282 | - | 7 | 11 | 45 |
| N.Y. City | 1.031 | 1.132 | - | 911 | 752 | 1 | 5 |  | $10^{-}$ |
| N.J. | 342 | 339 | - | 212 | 388 | - | 5 | - | 10 |
| Pa . | 168 | 220 | - | 367 | 387 | - | 1 | - | 133 |
| E.N. CENTRAL | 545 | 595 | 1 | 1.175 | 1.318 | - | 13 | $17+3$ | 74 |
| Ohio | 74 | 121 | 1 | 213 | 264 | - | 3 | 152 | 15 |
| Ind. | 52 | 66 | . | 142 | 137 | - | 3 | - | 10 |
| III. | 275 | 177 | - | 512 | 549 | - | 1 | $\overline{-1}$ | 13 |
| Mich. | 114 | 192 | - | 248 | 286 | - | 4 | 21 | 7 |
| Wis. | 30 | 39 | - | 60 | 82 | - | 2 | - | 29 |
| W.N. CENTRAL | 119 | 213 | 2 | 256 | 303 | 19 | 4 | $17+5$ | 418 |
| Minn. | 28 | 60 | 1 | 45 | 52 | 1 | 3 | - | 70 |
| lowa | 14 | 10 | - | 37 | 34 | - | - | - | 85 |
| Mo. | 55 | 114 | - | 121 | 143 | 15 | - | 1 | 22 |
| N. Dak. | 1 | 4 | - | 2 | 8 | - | - | 1 | 55 |
| S. Dak. | 4 | - | U | 13 | 11 | 2 | - | - | 134 |
| Nebr. | 5 | 9 |  | 10 | 17 | 1 | 1 | 15 | 22 |
| Kans. | 12 | 16 | 1 | 28 | 38 | - | - | 145 | 30 |
| S. ATLANTIC | 2.921 | 3.915 | 2 | 2.043 | 2.093 | 5 | 13 | $78+11$ | 635 |
| Del. | 17 | 10 | - | 18 | 26 | 1 | - |  | - |
| Md. | 183 | 262 | - | 188 | 233 | - | 2 | 7 | 315 |
| D.C. | 178 | 146 | - | 87 | 81 | - |  |  |  |
| Va | 151 | 209 | - | 184 | 210 | - | 2 | 82 | 84 |
| W. Va. | 8 | 11 | - | 48 | 71 | - | - |  | 14 |
| N.C. | 323 | 393 | 2 | 247 | 310 | 4 | 1 | 325 | 3 |
| S.C. | 384 | 362 | - | 257 | 244 | . | - | 222 | 38 |
| Ga. |  | 676 | - | 330 | 282 | - | - | 5 | 99 |
| Fla. | 1.677 | 1.846 | - | 684 | 636 | - | 8 | 31 | 82 |
| E.S CENTRAL | 1,009 | 850 | - | 908 | 931 | 3 | , | $18+4$ | 116 |
| Ky . | 33 | 52 | . | 194 | 213 | - | 1 |  | 18 |
| Tenn. | 284 | 242 | - | 279 | 291 | 3 | - | 103 | 25 |
| Ala. | 316 | 287 | - | 287 | 284 | - | 2 | 4 | 71 |
| Miss. | 376 | 269 | - | 148 | 143 | - | - | 41 | 2 |
| W.S. CENTRAL | 2,977 | 3.177 | - | 1.116 | 1.111 | 14 | 8 | $49+4$ | 471 |
| Ark. | 151 | 106 | - | 110 | 121 | 5 |  | 7 | 75 |
| La. | 515 | 592 | - | 177 | 152 | 7 | - | 36 | 10 |
| Okla. | 83 | 87 | - | 128 | 111 | 7 | - | 36 | 58 |
| Tex. | 2.228 | 2.392 | - | 701 | 727 | 2 | 8 | 61 | 328 |
| MOUNTAIN | 353 | 317 | 2 | 238 | 264 | 8 | 5 | 6 | 198 |
| Mont. | 2 | 2 | . | 29 | 13 | 2 | - | 3 | 104 |
| daho | 3 | 14 | - | 11 | 14 | - | - |  | ${ }_{1}$ |
| Wyo. | 5 | 5 | 1 | 5 |  | - | - | 2 | 11 |
| Colo. | 89 | 70 | 1 | 30 | 28 |  | 4 | . | 6 |
| N. Mex. | 45 | 39 | - | 45 | 50 | 2 | 1 | - | 2 |
| Ariz. | 187 | 128 | - | 106 | 125 | , | - | - | 72 |
| Utah | 4 | 10 | - | 6 | 19 | 2 | - | - | - |
| Nev . | 18 | 49 | - | 6 | 15 | - | - | - | 1 |
| PACIFIC | 2,013 | 2.106 | 2 | 1.974 | 1,881 | 2 | 59 | $2+1$ |  |
| Wash. | 57 | 69 |  | 108 | 96 | - |  | - | 3 |
| Oreg. | 43 | 67 |  | 71 | 73 |  |  |  | 1 |
| Calif. | 1.872 | 1,930 | 2 | 1.647 | 1.580 | 1 | 56 | 21 | 255 |
| Alaska | 2 | 3 | . | 57 | 28 | - | - | - | - |
| Hawaii | 39 | 37 | - | 91 | 104 | - | 3 | - | - |
| Guam | 2 | - | U | 14 | 26 | - | - | - |  |
| P.R. | 390 | 418 | - | 164 | 205 | - | 1 | - | 18 |
| . 1. | 1 | 7 | - | 1 | 3 | - | 52 | - | - |
| Pac. Trust Terr. | 13 | - | U | 16 | - | - | - | - | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending
June 22, 1985 (25th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&1•• } \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&1•• <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | < 1 |  |
| NEW ENGLAND | 636 | 443 | 115 | 40 | 19 | 19 | 35 | S. ATLANTIC | 1.295 | 754 | 333 | 105 | 43 | 60 | 55 |
| Boston, Mass. | 184 | 122 | 35 | 10 | 8 | 9 | 19 | Atlanta, Ga. | 124 | 74 | 31 | 11 | 3 | 5 | 1 |
| Bridgeport, Conn. | 41 | 27 | 10 | 3 | - | 1 | 2 | Baltimore, Md. | 222 | 135 | 54 | 17 | 9 | 7 | 6 |
| Cambridge, Mass. | 23 | 16 | 7 | - | - | - | 3 | Charlotte, N.C. | 68 | 32 | 23 | 7 | 3 | 3 | 3 |
| Fall River, Mass. | 33 | 25 | 6 | 2 | - | - | - | Jacksonville, Fla. | 99 | 57 | 31 | 5 | 3 | 3 | 4 |
| Hartford, Conn. | 38 | 31 | 2 | 3 | 1 | 1 | 1 | Miami, Fla. | 152 | 79 | 52 | 9 | 5 | 7 | 1 |
| Lowell, Mass. | 26 | 13 | 11 | 1 | 1 | - | 1 | Norfolk, Va. | 61 | 31 | 13 | 7 | 2 | 8 | 4 |
| Lynn, Mass. | 18 | 13 | 2 | 3 | - | - | - | Richmond, Va. | 80 | 40 | 31 | 6 | 1 | 2 | 10 |
| New Bedford, Mass. | . 26 | 22 | 3 | 1 | $\overline{7}$ | - | 1 | Savannah, Ga. | 44 | 32 | 8 | 2 | 2 | - | 7 |
| New Haven, Conn. | 36 | 23 | 6 | 5 | 1 | 1 | 1 | St. Petersburg, Fla. | 103 | 83 | 14 | 2 | - | 4 | 5 |
| Providence, R.I. | 63 | 45 | 8 | 2 | 3 | 5 | 2 | Tampa, Fla. | 69 | 39 | 15 | 9 | 2 | 4 | 7 |
| Somerville, Mass. | 13 | 12 | 1 | - | - | - | 2 | Washington, D.C. | 247 | 134 | 54 | 30 | 12 | 17 | 6 |
| Springfield, Mass. | 44 | 31 | 9 | 1 | 2 | 1 | 2 | Wilmington, Del. | 26 | 18 | 7 |  | 1 | - | 1 |
| Waterbury, Conn. | 35 | 25 | 5 | 5 |  | - |  |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 56 | 38 | 10 | 4 | 3 | 1 | 1 | E.S. CENTRAL | 870 | 557 | 211 | 46 | 25 | 31 | 35 |
|  |  |  |  |  |  |  |  | Birmingham, Ala. | 143 | 92 | 35 | 6 | 4 | 6 | 1 |
| MID ATLANTIC 2 | 2,606 | 1,727 | 547 | 210 | 67 | 55 | 111 | Chattanooga, Tenn. | 48 | 34 | 7 | 2 | 1 | 4 | 3 |
| Albany, N.Y. | 38 | 29 | 6 | 2 | - | 1 | 1 | Knoxville, Tenn. | 79 | 55 | 14 | 5 | 3 | 2 | 9 |
| Allentown, Pa. | 18 | 12 | 5 | 1 | - | 5 | - | Louisville, Ky. | 108 | 71 | 22 | 6 | 1 | 8 | 2 |
| Buffalo, N.Y. | 91 | 62 | 22 | 2 | - | 5 | 12 | Memphis, Tenn. | 212 | 126 | 60 | 17 | 9 | - | 8 |
| Camden, N.J. | 33 | 22 | 9 | 1 | 1 | - | 2 | Mobile, Ala. | 80 | 48 | 21 | 3 | 2 | 6 | 4 |
| Elizabeth, N.J. | 26 | 20 | 5 | , | 1 | - | 1 | Montgomery, Ala. | 65 | 44 | 16 | 2 | 1 | 2 | - |
| Erie, Pa.t | 33 | 25 | 6 | 1 | 1 | - | 2 | Nashville, Tenn. | 135 | 87 | 36 | 5 | 4 | 3 | 8 |
| Jersey City, N.J. | 36 | 25 | 7 | 3 | 1 | - | 1 |  |  |  |  |  |  |  |  |
| N.Y. City, N.Y. 1 | 1,372 | 874 | 301 | 128 | 40 | 29 | 47 | W.S. CENTRAL | 1,356 | 774 | 340 | 121 | 51 | 70 | 63 |
| Newark, N.J. | 77 | 43 | 17 | 11 | 2 | 4 | 5 | Austin, Tex. | 60 | 40 | 7 | 7 | 2 | 4 | 5 |
| Paterson, N.J. | 30 | 22 | 6 | 1 | - | 1 | 1 | Baton Rouge, La. | 39 | 20 | 9 | 2 | 4 | 4 | 3 |
| Philadelphia, Pa. | 392 | 262 | 79 | 31 | 13 | 7 | 21 | Corpus Christi, Tex. | 45 | 33 | 6 | 2 | - | 4 | - |
| Pittsburgh, Pa. $\dagger$ | 64 | 39 | 16 | 4 | 2 | 3 | 1 | Dallas, Tex. | 179 | 102 | 49 | 21 | 3 | 4 | 11 |
| Reading, Pa. | 32 | 26 | 5 | 1 | - | - | 2 | El Paso, Tex. | 41 | 25 | 7 | 3 | 1 | 5 | 2 |
| Rochester, N.Y. | 124 | 97 | 15 | 8 | 3 | 1 | 5 | Fort Worth, Tex. | 107 | 59 | 22 | 13 | 5 | 8 | 6 |
| Schenectady, N.Y. | 30 | 23 | 4 | 3 | - | - | - | Houston, Tex. | 329 | 160 | 101 | 39 | 15 | 14 | 12 |
| Scranton, Pa.t | 36 | 29 | 7 | - | - | - | 2 | Little Rock, Ark. | 74 | 37 | 21 | 6 | 6 | 4 | 7 |
| Syracuse, N.Y. | 93 | 60 | 23 | 4 | 3 | 3 | 2 | New Orleans, La. | 163 | 99 | 45 | 8 | 6 | 5 | 3 |
| Trenton, N.J. | 31 | 20 | 4 | 7 | - | - | 1 | San Antonio, Tex. | 157 | 89 | 41 | 14 | 7 | 6 | 8 |
| Utica, N.Y. | 27 | 19 | 8 | - | - | $\bar{\square}$ | 2 | Shreveport, La. | 72 | 52 | 10 | 1 | 1 | 8 | 3 |
| Yonkers, N.Y. | 23 | 18 | 2 | 2 | - | 1 | 3 | Tulsa, Okla. | 90 | 58 | 22 | 5 | 1 | 4 | 3 |
| E.N. CENTRAL | 2,179 | 1.496 | 381 | 141 | 73 | 87 | 85 | MOUNTAIN | 600 | 370 | 142 | 48 | 21 | 19 | 38 |
| Akron, Ohio | 66 | 45 | 13 | 5 | 2 | 1 | 4 | Albuquerque, N.Mex. | x. 54 | 32 | 13 | 4 | 1 | 4 | 2 |
| Canton, Ohio | 44 | 35 | 8 | 1 | - | 7 | 1 | Colo. Springs, Colo. | 34 | 23 | 4 | 5 | 1 | 1 | 1 |
| Chicago, III.§ | 553 | 462 | 11 | 26 | 16 | 37 | 16 | Denver, Colo. | 107 | 69 | 28 | 5 | 1 | 4 | 9 |
| Cincinnati, Ohio | 132 | 91 | 25 | 8 | 5 | 3 | 18 | Las Vegas, Nev. | 86 | 45 | 25 | 8 | 7 | 1 | 8 |
| Cleveland. Ohio | 142 | 71 | 44 | 12 | 9 | 6 | 2 | Ogden, Utah | 15 | 9 | 4 | 1 | - | 1 | - |
| Columbus, Ohio | 131 | 76 | 33 | 14 | 5 | 3 | 5 | Phoenix, Ariz. | 156 | 100 | 29 | 14 | 7 | 6 | 7 |
| Dayton, Ohio | 109 | 73 | 26 | 8 | 1 | 1 | 2 | Pueblo, Colo. | 24 | 13 | 9 | 1 | 1 | - | 3 |
| Detroit, Mich. | 263 | 156 | 61 | 28 | 10 | 8 | 3 | Salt Lake City, Utah | 36 | 24 | 8 | 2 | 2 | - |  |
| Evansville, Ind. | 30 | 22 | 5 | 1 | 2 | - | 1 | Tucson, Ariz. | 88 | 55 | 22 | 8 | 1 | 2 | 8 |
| Fort Wayne, Ind. | 40 | 26 | 7 | 1 | 6 | - | 2 |  |  |  |  |  |  |  |  |
| Gary, Ind. | 12 | 4 | 6 | - | 1 | 1 | - | PACIFIC | 1.905 | 1.194 | 391 | 176 | 82 | 55 | 117 |
| Grand Rapids, Mich. | h. 44 | 35 | 7 | 2 | - | - | 2 | Berkeley, Calif. | 21 | 16 | 1 | 4 | - | - | - |
| Indianapolis, Ind. | 168 | 101 | 44 | 12 | 3 | 8 | 2 | Fresno, Calif. | 62 | 36 | 9 | 10 | 4 | 3 | 4 |
| Madison, Wis. | 44 | 29 | 10 | 1 | 4 | - | 2 | Glendale, Calif. | 20 | 14 | 4 | 4 | 1 | . | 1 |
| Milwaukee, Wis. | 109 | 69 | 28 | 6 | 2 | 4 | 5 | Honolulu, Hawaii | 58 | 35 | 15 | 6 | 2 | - | 6 |
| Peoria, III. | 46 | 30 | 5 | 5 | 1 | 5 | 4 | Long Beach, Calif. | 81 | 53 | 20 | 4 | 2 | 2 | 7 |
| Rockford, III. | 62 | 44 | 13 | 1 | - | 4 | 6 | Los Angeles, Calif. | 519 | 336 | 109 | 43 | 14 | 10 | 21 |
| South Bend, Ind. | 48 | 32 | 7 | 4 | 3 | 2 | 3 | Oakland, Calif. | 68 | 44 | 10 | - 9 | 1 | 4 | 5 |
| Toledo, Ohio | 79 | 54 | 18 | 4 | 2 | 1 | 6 | Pasadena, Calif. | 28 | 20 | 5 | 5 | - | 1 | 1 |
| Youngstown, Ohio | 57 | 41 | 10 | 2 | 1 | 3 | 1 | Portland, Oreg. | 111 | 80 | 16 | - 7 | 3 | 5 | 7 |
|  |  |  |  |  |  |  |  | Sacramento, Calif. | 142 | 93 | 24 | 411 | 13 | 1 | 11 |
| W.N. CENTRAL | 657 | 458 | 120 | 32 | 18 | 29 | 23 | San Diego, Calif. | 148 | 81 | 23 | 22 | 16 | 6 | 22 |
| Des Moines, lowa | 39 | 30 | 7 | - | 1 | 1 | 2 | San Francisco, Calif. | . 172 | 102 | 39 | 21 | 5 | 5 | 4 |
| Duluth, Minn. | 28 | 23 | 3 | 2 | - | - | - | San Jose, Calif. | 206 | 127 | 41 | 11 | 10 | 7 | 14 |
| Kansas City, Kans. | 26 | 16 | 7 | 1 | 1 | 1 | - | Seattle, Wash. | 142 | 73 | 54 | 7 | 4 | 4 | 5 |
| Kansas City, Mo. | 103 | 68 | 23 | 5 | 4 | 3 | 6 | Spokane, Wash. | 51 | 34 | 10 | 1 | 4 | 2 | 3 |
| Lincoln, Nebr. | 27 | 16 | 7 | 1 | 1 | 2 | 3 | Tacoma, Wash. | 76 | 50 | 11 | 17 | 3 | 5 |  |
| Minneapolis, Minn. | 78 | 50 | 15 | 6 | 1 | 6 | - |  |  |  |  |  |  |  |  |
| Omaha, Nebr. | 81 | 53 | 17 | 1 | 2 | 8 | 1 | TOTAL | 12,104 | 7.773 | 2,580 | - 919 | 399 | 425 | 562 |
| St. Louis, Mo. | 147 | 107 | 21 | 10 | 4 | 5 | 7 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 58 | 46 | 8 | 4 | - | - | - |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 70 | 49 | 12 | 2 | 4 | 3 | 4 |  |  |  |  |  |  |  |  |

- Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
-• Pneumonia and influenza.
$\dagger$ Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
$\dagger \dagger$ Total includes unknown ages.
§ Data not available. Figures are estimates based on average of past 4 weeks.

Lyme Disease - Continued
Because antimicrobial therapy decreases the morbidity from Lyme disease, it is important that cases be recognized and patients treated. In endemic areas, Lyme disease can be diagnosed if the typical ECM skin lesion is present. Serologic tests have been developed to measure antibody against $B$. burgdorferi $(5,6)$. These tests, when positive, can help support the clinical suspicion of Lyme disease in atypical cases, such as those without ECM or those occurring outside recognized endemic areas. However, serologic tests are often negative, particularly early in Lyme disease. Therefore, a negative result does not exclude the diagnosis early in the course of the illness (7). Antimicrobial therapy with oral tetracycline is recommended for patients with early manifestations of Lyme disease; penicillin and erythromycin are also effective (8). Children and pregnant women should be treated with penicillin. Some of the neurologic abnormalities, as well as established arthritis, have been found to respond to high dose intravenous penicillin $(9,10)$.

Previously, Lyme disease was recognized in three endemic areas: the coastal areas of the northeast (Connecticut, Delaware, Maryland, Massachusetts, New York, New Jersey, Pennsylvania, Rhode Island), the midwest (Minnesota, Wisconsin), and the west (California, Nevada, Oregon, Utah). Although these areas are within the range of the known tick vectors, I. dammini and I. pacificus, some areas where Lyme disease has occurred are not. However, B. burgdorferi has been found in Amblyomma americanum (11) and Dermacentor variabilis ; these and other ticks may be vectors in some areas.

It is not known to what extent the increase in numbers and widening geographic distribution of cases reflect increased recognition or reporting rather than increased incidence of the disease or spread of the vectors and/or spirochete. Increased reporting is probably responsible for part of the greater than $500 \%$ increase in reported cases in Connecticut in 1984, because an active surveillance system was initiated in the state that year. Underreporting is suspected in some states, such as Massachusetts, where officials think far greater numbers of cases are occurring than are reported. CDC encourages reporting of cases of Lyme disease to state and local health departments so the geographic distribution and temporal trends can be better defined.

Since transplacental transmission of B. burgdorferi has been documented, it will be important to determine whether maternal infection with B. burgdorferi is associated with an increased risk of adverse pregnancy outcome. Cases of Lyme disease during pregnancy should be reported to state health departments and CDC (telephone [404] 329-3687) before delivery so the types and approximate frequency of any adverse outcome can be determined and appropriate diagnostic tests obtained.

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## Epidemiologic Notes and Reports

## Lead Poisoning in a Capacitor and Resistor Plant - Colorado

In July 1984, the Mesa County, Colorado, Health Department was notified of a local electrical component manufacturing plant worker who had a blood lead level of $105 \mu \mathrm{~g} / \mathrm{dl}$. At the plant, fritted leaded glass was used in a vitreous enameling process to coat capacitors and resistors, and during the dipping, sandblasting, and sanding processes, a fine dust containing lead borosilicate was produced. The Occupational Safety and Health Administration (OSHA) began an investigation at the component plant July 30, 1984. The plant was found to be heavily contaminated, with air lead levels ranging from $61 \mu \mathrm{~g} / \mathrm{m}^{3}$ to $1,700 \mu \mathrm{~g} / \mathrm{m}^{3}$, in excess of the OSHA Permissible Exposure Level (PEL) of $40 \mu \mathrm{~g} / \mathrm{m}^{3}$ per 10 -hour working day.

Eighty-one of approximately 94 additional workers from the plant were tested and found to have blood lead levels ranging from $3 \mu \mathrm{~g} / \mathrm{dl}$ to $135 \mu \mathrm{~g} / \mathrm{dl}$. Among these were two pregnant woman, one of approximately 8 weeks' gestation with a blood lead level of $61 \mu \mathrm{~g} / \mathrm{dl}$, and a second of 8-13 weeks' gestation with a blood lead level of $27 \mu \mathrm{~g} / \mathrm{dl}$. Thirty-eight (42\%) of 94 workers were removed from the workplace because of elevated blood lead levels $50 \mu \mathrm{~g} / \mathrm{dl}$ or greater. Nineteen of the workers received chelation therapy. Fourteen (58\%) of 24 workers with elevated blood lead levels who were sent for additional testing were found to have evidence of possible neurologic impairment on the basis of the Halstead-Reitan Neuropsychological Test Battery; these workers have been removed from the exposure site.

Although the plant's management was apparently unaware of lead in the raw material, the process in question required the low-melting-point leaded glass for adequate coating of the components. The plant was cited and fined for violations of numerous regulations; OSHA made engineering recommendations and enforced requirements for respirators, protective clothing, and periodic air and blood lead monitoring.

In addition, children of workers were potentially exposed to lead dust brought home on workers' clothes. The mean lead level in 20 exposed children under 6 years old ( $13.4 \mu \mathrm{~g} / \mathrm{dl}$ ) was significantly above that in 31 unexposed comparison children under 6 years of age ( 7.1 $\mu \mathrm{g} / \mathrm{dl}$ ) by Student's t-test. No children were found to be above the CDC guideline for lead toxicity in children ( $25 \mu \mathrm{~g} / \mathrm{dl}$ of blood lead and erythrocyte protoporphyrin level $35 \mu \mathrm{~g} / \mathrm{dl}$ or greater) (1), but a repeat screening of workers' children in November 1984 found three with blood lead levels above this new guideline. The children were referred for $\mathrm{CaNa}_{2}$ EDTA mobilization tests and were not found to have elevated total body burdens of lead. Chelation therapy was not necessary (2).
Reported by I Alkes, MD, St. Mary's Family Practice Residency, Grand Junction, D Teitelbaum, MD, Denver Clinic, PC, F Kadushin, PhD, Colorado Neurobehavioral Institute, K Lampert, MD, Mesa County

Lead Poisoning - Continued
Health Dept, R Hopkins, MD, Colorado Dept of Health; J Ryan, Occupational Safety and Health Administration Region VIII; Div of Field Svcs, Epidemiology Program Office, Special Studies Br, Chronic Diseases Div, Center for Environmental Health, CDC.
Editorial Note: This type of plant and process represents a new source of lead poisoning in workers and potential exposure for their families. OSHA standards were violated, but with consultation and enforcement of existing rules, the plant has been able to maintain operations while bringing this exposure problem under control, as shown by repeated monitoring of blood lead levels and area air samples.

The blood lead test is one measure of the amount of lead in the body and is the best available measure of recent lead absorption. Adults not exposed to lead at work usually have a blood lead level less than $30 \mu \mathrm{~g} / \mathrm{dl}$; the average is less than $15 \mu \mathrm{~g} / \mathrm{dl}(3,4)$. For purposes of compliance with the OSHA lead standard, a blood lead level averaging $50 \mu \mathrm{~g} / \mathrm{dl}$ or more represents excessive lead exposure, and the affected employee must be removed from further lead exposure until his blood lead level is less than $40 \mu \mathrm{~g} / \mathrm{dl}$. The standard protects the earnings, seniority, and other benefits of employees who, because of excessive lead absorption, are removed from jobs involving lead exposure (5).

A World Health Organization study group recommended that blood lead levels not exceed $30 \mu \mathrm{~g} / \mathrm{dl}$ in occupationally exposed women of childbearing age and not exceed $40 \mu \mathrm{~g} / \mathrm{dl}$ in other workers (6). In a pregnant woman, lead crosses the placenta, and lead concentrations in umbilical cord blood are nearly equal to those in maternal blood (7). Since the growing brain of the fetus is likely to be at least as sensitive to the neurologic effects of lead as the brain of a young child, umbilical cord levels should be at least below $25 \mu \mathrm{~g} / \mathrm{dl}$ (2).

Lead dust can cling to the skin, shoes, clothing, and vehicles of workers and can thus be carried from workplace to home. Previous studies have demonstrated the potential for elevated blood lead levels in children of workers (8). It is important, therefore, when high levels are seen in workers, to evaluate potential familial exposure, as was done in this instance. Strict compliance with OSHA standards is quite effective in decreasing this type of exposure. These standards provide that employees exposed to lead levels above the PEL be provided with the following at the employer's expense: protective work clothing and equipment, cleaning of work clothing, change rooms, showers, and filtered-air lunchrooms. However, many occupational exposures to lead are not covered by the OSHA standards. Companies with fewer than 10 employees (cottage industries, "hobby" production of pottery and stained glasswork, and home manufacturing of bullets and fishing sinkers) are excluded from the OSHA standards.

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## Notice to Readers

## Reported Measles Cases - United States

Beginning with this issue of $M M W R$, a map will replace the list of states that have reported measles during the past 4 weeks, which has appeared weekly since April 5, 1985. Cases shown on the map lag 1 week behind those shown in Tables I and III.

FIGURE I. Reported measles cases - United States, weeks 21-24, 1985



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The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, Morbidity and Mortality Weakly Report, Centers for Disease Control, Atlanta, Georgia 30333.

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[^0]:    -Case definition varies by reporting year and state.
    ${ }^{\dagger}$ Provisional data.

[^1]:    "Seven of the 102 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

